INTERAVIA

Aeronautics • Astronautics • Electronics

Contents for Year 1967

MAIN ITEMS

No. 1 **Hovercraft Operations**
The Canadian Aerospace Industry
Air and Space Research in Germany

No. 2 **Long-range Commercial Jet Transports**
The Boeing Company Today
Gemini Programme Results

No. 3 **Turbine-powered Short and Medium-range Transports**
Single-engined Aircraft in General Aviation

No. 4 **New Dimensions in Air Cargo**
Air Forces of the World. 1 (The Near East)

No. 5 **France's Aviation and Space Industry**
Aircraft and Engine Programmes in Europe
Air Forces of the World. (Western Europe (1))

No. 6 **Designs for Tomorrow's Airports**
Aerospace Research Rockets
Air Forces of the World. (Western Europe (2))

No. 7 **Around the Paris Air Show**
Air Traffic Control in Europe

No. 8 **The Moscow Air Display**
Equipment Show at Le Bourget
Air Forces of the World. (Africa)

No. 9 **General Aviation: New Twin-engined Business Aircraft**
VAK 191B Development Report
Air Forces of the World. (The Far East)

No. 10 **Ten Years in Space**
Advances in Helicopter Technology
Airport Ground Equipment

No. 11 **Air Transport Tomorrow**
Aircraft Cabin Furnishing
Pillars of World Air Transport

No. 12 **Intermediate range Large Capacity Transports — Projects in Europe and the USA**
High By-pass Ratio Turbofan Engines
The British Electronics Industry

CONTENTS FOR YEAR 1967

1. International Organizations

The Second ITA Symposium: 1/22
Sixth Annual Conference of IFATCA: 5/602
Eurocontrol – Organization and Planning: 7/1023
IATA's Seventeenth Technical Conference: 11/1723

2. Defence and Political

The "reshaping" of the French Aviation Industry: 2/153
The Expanding Airline Industry: 2/173
A Change of Tempo: 3/355
Consolidating European Technology: 7/1013
IATA's Director General looks to the Future: 11/1756

3. Civil Aviation

ITA Symposium: 1/22
Metro '66: 1/94
The Expanding Airline Industry: 2/173
The Air Transport Revolution – Survey of Long Range Commercial Turbojet Transports: 2/175
The Early Years of Air Transport: 2/185
British Overseas Airways Corporation – M. Nibloe: 2/189
Frank Discussion with the Chairman of BOAC: 2/190
The Smaller Turbojets Accelerate Progress: 3/356
Swissair and the Douglas DC-9: 3/377
The Key to Air Traffic Growth: 4/479
The Air Freight Breakthrough is Technological: 4/480
The Cargo Container – Key to Total Worldwide Distribution – G. J. Godbout: 4/484
Seaboard Makes Air Cargo Pay: 4/486
High-speed Ground Transport in 1980
Intercity Air Transport: 5/754
Door-to-door Air Services Cut Total Travel Time: 5/758
Qantas – Australia's Round-the-World Airline – G. Ruddick: 7/1094
Australia's Domestic Air Transport Picture: 7/1096
Profile of Jugoslovenski Aerotransport – K. Höhle: 7/1102
Airbus Prospects: 9/1371
By Heron to Honolulu – J. F. Newbery: 9/1411
The Bahamas – A Paradise for Flying Tourists: 9/1419
IATA's Seventeenth Technical Conference: 11/1723
No discount for quantity: 11/1741
Airline executives view the future of air transport: 11/1742
Fly Air Europe – Charles Stuart: 11/1747
Planning the future air cargo system – L. B. Aschenbeck: 11/1751
Philippine Air Lines – Host to the 23rd IATA General Assembly: 11/1754
IATA's Director General looks to the Future: 11/1756
Pillars of World Air Transport: 11/1757
For Private and Business Flying: 12/1851
The Airbus – a Challenge to Aviation: 12/1869

4. Service Aviation

Air Forces of the World –
1. The Near East: 4/503
2. Western Europe (1): 5/770

3. Western Europe (2): 6/914
4. Africa: 8/1305
5. The Far East: 9/1429

The Soviet Union Modernises its Air Force: 9/1372

5. Aircraft

a) Civil Aircraft

Boeing plans the production and assembly of the 747: 1/84
The US SST: still uncertain: 2/153
The Air Transport Revolution – Survey of long range commercial turbojet transports: 2/175
Table of long range jet transports: 2/181
The Antonov An-24B: 2/223
The Tupolev Tu-154: 2/224
Towards agreement on a joint airbus project: 3/328
The smaller turbojets accelerate progress: 3/356
Turbine-engined aircraft on medium and short-haul routes: 3/358
Medium and short-haul turbine-engined transports: 3/363
Turbine power for the Convair liner: 3/373
Building the Boeing 737: 3/374
Swissair and the Douglas DC-9: 3/377
Single-engined aircraft for training and pleasure: 3/387
Modern single-engined aircraft: 3/388
The Beagle B.121 Pup: 3/390
The Wassmer WA.50: 3/391
Single-engined aircraft technical data: 3/395
Transall 161: 4/460
New generation cargo aircraft – the Boeing 747 Freighter . . .: 4/489 . . . and the Lockheed L-500 Series: 4/491
The Trident 3B: 5/582
Russia's new feederliner – the Yak-40: 5/718
The Fan Jet Falcon in operation – J. B. Taylor: 5/767
Flying the HFB 320 Hansa – D. H. Chopping: 6/884
The Bo 105 light helicopter: 6/888
The Fokker F.28 Fellowship: 6/934
New Aircraft Projects – Commercial hypersonic aircraft: 7/1100
The Czechoslovak L-410 touring and feeder: aircraft: 7/1100
The Pilatus PC-8 Twin Porter: 7/1101
Casa 212 STOL feeder aircraft: 7/1101
Concorde in prospect: 8/1238
Flying the Twin Otter – D. H. Chopping: 8/1266
Private and Business Flying: 9/1342
Airbus prospects: 9/1371
Twin-engined executive aircraft from the USA: 9/1405
Rockwell-Standard presents the Turbo 2 Commander: 9/1408
Flying the Mitsubishi MU-2: 9/1409
The Hughes 500 Helicopter: 9/1410
By Heron to Honolulu – J. F. Newbery: 9/1411
SIAI-Marchetti enters the light aircraft market – G. Landrock: 9/1414
Retractable landing gear for the Cherokee: 9/1418
American light aircraft deliveries: 9/1439
Airbus agreement signed: 10/1477
High-speed helicopters – C. Fischer: 10/1551
Flight testing the Fokker F.28: 11/1799
The Airbus – a Challenge to Aviation: 12/1869
The A-300 Project: 12/1871
Lockheed presents the L-1011: 12/1876

b) Military Aircraft

Range telemetry by DC-7C: 4/535
Saab 37 Viggen – the major programme of the Swedish aviation industry: 5/710
The US-German V/STOL tactical fighter programme: 5/778
The Bo 105 light helicopter: 6/888
The Lockheed C-5A – A new transport system for the USAF: 8/1262
The Soviet Union modernises its air force: 9/1372
The VFW/Fiat VAK 191B – joint projects for a V/STOL strike aircraft – R. Riccius, F. Giura: 9/1377
High-speed helicopters – C. Fischer: 10/1551
The Bell AG-1G HueyCobra: 10/1560
The Lockheed AH-56A Cheyenne: 10/1562
The development of the rigid rotor: 10/1564
The Dornier Do 132 – A light helicopter with hot cycle rotor system: 10/1566
First VTOL by Dornier Do 31-E3: 12/1852
Evolution of the F-104 Starfighter: 12/1917

6. Guided missiles and rockets

The new French test missile centre: 1/86
Investigation of the disturbed ionosphere: The Kiruna ESRANGE: 1/68
Research and Production news: Missile control centre – the USAF's Western test range: 4/516
Range telemetry by DC-7C: 4/535
French ballistic missile development: 5/600
Sounding rockets: 6/905
1. Missions for sounding rockets: 6/905
2. Technical details of some sounding rockets
3. Wallops Station, a typical launch base
SSBS and MSBS – France's strategic missiles: 7/994
European tactical missiles: 7/1060

7. Powerplants

Light aircraft powerplants: 3/392
The Pratt & Whitney JT9D: 6/882
Engines for all applications: 7/1058
The Rolls-Royce RB.207 – powerplant for the European Airbus: 12/1874
High by-pass ratio fanjets – the GE CF6/34, P & W JT18D and the Rolls-Royce RB.211: 12/1880

8. Electronics

The Nomad tactical air control system: 1/63
Philips – Europe's largest electronics organisation: 1/66
N. V. Hollandse Signaalaparaten: 1/68
SATCO for West German ATC: 1/70
The role of the accident data recorder – K. H. Simpkin: 2/212
Research and production news: 1/72 – 2/214 – 3/400 – 4/514 – 6/912 – 9/1440
HF or VHF for long range aeronautical communications?: 2/216
Experimental centre inaugurated: 3/402
Some basic considerations on electronic displays for aircraft – A. G. Barnes: 3/403
Military flight recorder use – M. W. A. Weers: 3/411
ATA collision avoidance research: 4/461
Australia's ATC radar network – E. B. Mulholland, F. R. Soden: 4/511
IFATCA: 5/602
The French Electronics Industry – G. Lander: 5/665
Organization and problems of air traffic control: 7/1014
Air traffic control in Europe: 7/1016
Eurocontrol: 7/1023
ATC – How it all began – Glen A. Gilbert: 7/1026
Electronics at the Paris Air Show: 8/1289
Link GAT-1 – A flight simulator for general aviation: 9/1420
The Eurospace Memorandum on a regional communications satellite system: 10/1495
Around and about the British Electronics Industry: 12/1893
Radar's Thirtieth Anniversary – D. Wood: 12/1898

9. Astronautics

Aeronautical Research in Western Germany – G. Landrock: 1/74
Space Science and Technology: 1/90 – 6/937
Space News in Brief: 2/154 – 3/330 – 4/459 – 5/599 – 6/855 – 7/995 – 9/1353 – 10/1478
Luna 13 Examines the Moon: 2/155
Gemini Programme Results: 2/207
The Apollo Incident: 3/329
Rescue from Space: 4/532
Secondary Applications for the Apollo Spacecraft: 5/748
The Vostok Launcher Vehicle: 7/993
Variety in the Space Show: 7/1062
The Soviet Space Pavilion: 7/1064
Space Launches from West and East: 8/1228
France's Space Programme: 8/1237
West Germany's Space Research Programme: 9/1351
The Eurospace Memorandum on a regional communications satellite system: 10/1495
Ten Years in Space: Sputnik to Apollo: 10/1513
Satellites in Daily Operation: 10/1517
Space Launch Log – 1957 to 1967: 10/1521
New Tools for Meteorology: 10/1541
Space Vehicles of Tomorrow: 10/1542
American and Russian Space Spectaculars: 12/1921

10. Non-Electronic Equipment

Equipment – Materials – Techniques: 1/92 – 4/517 – 7/1098
The Equipment Industry at Paris: 8/1299
Two Decades in Aircraft Interior Design: 11/1785
Cabin Furnishing and Design: 11/1788

Cabin Furnishing Companies in North America, Western Europe and Japan: 11/1789
Cabin Equipment and Materials: 11/1797

11. Airports and Airport Equipment

Paris Airports of Tomorrow: 3/396
High-speed Ground Transport in 1980: 4/492
Inadequacies of Airports: 6/873
US Experiments in Airport Design: 6/877
European Projects: 6/879
The Airport Equipment Industry: 10/1583
Airport Equipment Companies in North America and Japan: 10/1585

12. Research and Technical

Aeronautical Research in Western Germany – G. Landrock: 1/74
Boeing Plans the Production and Assembly of the 774: 1/84
The Next Step in the SST Programme: 2/153
Reliability Control – A quiet revolution in airline maintenance – James E. McCarthy: 2/225
Futuristic Engineering and Maintenance-scope, concepts and goals for the 1980s: 2/226
ATA Collision Avoidance Research: 4/461
The Bo 105 Light Helicopter: 6/888
Lockheed C-5A – a new transport system for the USAF: 8/1262
West Germany's Space Research Programme: 9/1351
VFW/Fiat VAK 191B – Joint project for a VSTOL strike aircraft – R. Riccius and F. Giura: 9/1377
Space vehicles of Tomorrow: 10/1542
High-speed Helicopters – C. Fischer: 10/1551
The Development of the Rigid Rotor: 10/1564
The Dornier Do 132: 10/1566
Investigating Sonic Boom Effects: 11/1781
Flight testing the Fokker F.28: 11/1799
First VTOL by Dornier Do 31-E3: 12/1852
Evolution of the F-104 Starfighter: 12/1917

13. Industry

Philips – Europe's largest electronics organisation: 1/66
N. V. Hollandse Signaalapparaten: 1/67
Boeing Plans the Production and Assembly of the 774: 1/84
Canada's Aerospace Industry – M. Willmot: 1/95
The "reshaping" of the French Aviation Industry: 2/153
The Boeing Company Today: 2/201
A Change of Tempo: 3/355
Building the Boeing 737: 3/375
A Thought for Paris: 5/561
French Aircraft and Missile activities: 5/652
Britain and the Paris Show – D. Wood: 5/670
Mergers and Reduced Contracts – Uncertainty in the German Aerospace Industry: 5/702
Italy's Aeronautical Industry Apprehensive of the Future – G. Lourier: 5/707
New Horizons for the Czech Aircraft Industry – E. Baur: 5/714
Consolidating European Technology: 7/1013
France's Space Programme: 8/1237
Concorde in Prospect: 8/1238
West Germany's Space Research Programme: 9/1351
SIAI-Marchetti Enters the Light Aircraft Market – G. Landrock: 9/1414
Airbus Agreement Signed: 10/1477
Around and About the British Electronics Industry: 12/1893

14. Exhibitions, Congresses, Meetings

Sixth Annual Conference of IFATCA: 5/602
A Thought for Paris: 5/651
The French Electronics Industry – G. Lander: 5/665
The World Came to Paris: 7/1045
Models and Projects: 7/1055
Variety in the Space Show: 7/1062
The Soviet Space Pavilion: 7/1064
The Moscow Air Show 1967: 8/1257
Electronics at the Paris Salon: 8/1289
The Equipment Industry at Paris: 8/1299
The NBAA Exhibition: 12/1882

15. Miscellaneous

Interavia Air Letter Reports . . . 1/19 – 2/133 – 3/325 – 4/439 – 5/579 – 6/835 – 7/973 – 8/1225 – 9/1339 – 10/1475 – 11/1703 – 12/1839
Viewpoint: 2/156 – 4/462 – 6/856 – 7/996 – 8/1240 – 9/1354 – 10/1496
What's in the Air?: 1/79 – 2/217 – 3/406 – 4/527 – 5/743 – 6/929 – 7/1089 – 8/1268 – 9/1382 – 10/1544 – 11/1800 – 12/1904
Books Received: 1/99 – 3/412 – 4/537 – 5/781 – 6/938 – 7/1105 – 9/1442
Operating Air Cushion Vehicles – M. Nibloe: 1/47
The SR.N4 in Production: 1/51
The Bell SK-9 ACV: 1/55
Reliability Control – A quiet revolution in airline maintenance – J. E. McCarthy: 2/225
Futuristic Engineering and Maintenance-scope, concepts and goals for the 1980s: 2/226
ATA Collision Avoidance Research: 4/461
High-speed Ground Transport in 1980: 4/492
The French Musée de l'Air: 5/750
An American in Paris: 5/753

16. Tables

Long range Jet Transports: 2/181
Medium and Short-haul Turbine-engined Transports: 3/363
Single-engined Aircraft Technical Data: 3/395
Over 180 Aircraft on Show: 7/1055
Deliveries of American Light Aircraft: 9/1439
Space Launch Log – 1957 to 1967: 10/1521
Airport Equipment Companies in North America, West Europe and Japan: 10/1585
Pillars of World Air Transport: 11/1757
Cabin Furnishing Companies in North America, Western Europe and Japan: 11/1789

17. International Defense Review

3/1967

Securing peace – without disarmament: p. 255
US Army weapons in Vietnam: p. 256
The M551 Sheridan – a new concept in combat vehicle design: p. 262
The Swiss 61 tank: p. 265
Combat surveillance in the British Army: p. 266
Guided weapons for Naval Air Defence – The Seacat short-range missile: p. 269
The Germany Navy chooses Tartar: p. 273
The Royal Navy's Sea Dart multi-purpose weapon: p. 275
Electronics on a modern warship – J. Marriott: p. 276
The Battle Shot: new methods in weapon training – J. A. I. Fillingham: p. 279
Weapons – Vehicles – Equipment: p. 282
Automatic range equipment: p. 286
Developed for Vietnam: p. 287

8/1967

Combat equipment of a modern army: p. 1151
Second generation Franco-German anti-tank missiles: p. 1155
Equipment plans of the Swedish Navy: p. 1159
Gas turbine powered torpedo boats for Sweden: p. 1159
Le Redoutable, the first French missile submarine: p. 162
Exercise Waggon Trail '67: p. 1164
The M116 Husky – a new amphibious cargo carrier for the US Army: p. 1166
The FV.430 series of light tracked vehicles: p. 1167
The AMX.30 battle tank: p. 1170
The Hispano-Suiza Type 110 multi-fuel engine: p. 1172
The Hotchkiss-Rive light fighting unit: p. 1172
A French hollow-charge projectile for 90 mm guns: p. 1174
Weapons – Vehicles – Equipment: p. 1175
A new self-propelled anti-tank gun from Rheinmetall: p. 1181
Electronics in the French Army: p. 1183
Indigo short range weapon system: p. 1186

11/1967

Israel considers the results of the six day war: p. 1629
The Israeli Air Force: p. 1637
Aviation in the British Army – D. Wood: p. 1639
Unison 1967: Commonwealth Defence Studies: p. 1642
The Swingfire anti-tank weapon system: p. 1646
The BAC Rapier – an efficient defence against low-flying aircraft: p. 1648
The Crotale air defence system: p. 1651
Are light and medium calibre automatic guns the weapons of modern war? – K. Fischer: p. 1652
Hispano-Suiza quick-firing guns and mountings: p. 1654
Weapons – Vehicles – Equipment: p. 1657
The Main Battle Tank 70: p. 1661

AUTHORS

Aschenbeck L. B. – Planning the Future Air Cargo System: 11/1751

Barnes A. G. – Some Basic Considerations on Electronic Displays for Aircraft: 3/403.

Baur E. – New Horizons for the Czech Aircraft Industry: 5/714

Chevalier R. – French Ballistic Missile Development: 5/600

Chopping D. H. – Flying the HFB 320 Hansa: 6/884 – Flying the Twin Otter: 8/1266

Fillingham J. A. I. – New Methods in Weapon Training: 3/279 (International Defense Review)

Fischer C. – High Speed Helicopters: 10/1551

Fischer K. – Are light and medium calibre guns the weapons of modern war?: 11/1652 (International Defense Review)

Gilbert G. A. – ATC – How it all began: 7/1026

Guira F. – Riccius R. – The VFW/Fiat VAK 191B – Joint Projects for a V/STOL Strike Aircraft: 9/1377

Godbout J. – The Cargo Container – Key to Total World-wide Distribution: 4/484

Höhle K. – Profile of Jugoslovenski Aerotransport: 7/1102

Lander G. – The French Electronics Industry: 5/665

Landrock G. – Aeronautical Research in Western Germany: 1/74
SIAI-Marchetti enters the Light Aircraft Market: 9/1414

Lourier G. – Italy's Aeronautical Industry Apprehensive of the Future: 5/707

Marriott J. – Electronics in a Modern Warship: 3/276 (International Defense Review)

McCarthy J. E. – Reliability Control – A Quiet Revolution in Airline Maintenance: 2/225

Mulholland E. B. – Soden F. R. – Australia's ATC Radar Network: 4/511

Neumann S. – British Avionics Industry Survey: 12/1893

Newbery J. F. – By Heron to Honolulu: 9/1411

Nibloe M. – Operating Air Cushion Vehicles: 1/47 – British Overseas Airways Corporation, The Guthrie Years: 2/189

Riccius R. – Giura F. – VFW/Fiat, VAK191B – Joint project for a VSTOL strike aircraft: 9/1377

Ruddick G. – Qantas – Australia's Round-the World Airline: 7/1094

Simpkin K. H. – The Role of the Accident Data Recorder: 2/212

Soden F. R. – Mulholland E. B. – Australia's ATC Radar Network: 4/511

Stuart C. – Fly Air Europe: 11/1747

Weers M. W. A. – Military Flight Recorder Use: 3/411

Willmot M. – Canada's Aerospace Industry: 1/95

Wood D. – Britain and the Paris Show: 5/670 – Aviation in the British Army: 11/1639 (International Defense Review) – Radar's 30th Anniversary: 12/1898

Editions: Interavia, Genève 11, Suisse